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- i. Electrolytic mangamese, (Director: Dr. Hölemann).
- J. Production of pure titanium. (Director: Dr. Seliger).
- k. Production of beryllium and beryllium alloys. (Director: Dr. Seliger).
- 1. Production of fluorine by electrolysis. (Director: Dr. Fuldner).
- m. Research into hydrofluoric acid and the Freons. (Director: Dr. Gebhardt)
- n. Determination of the range of effectiveness and usability of DDR-hexachlorocyclohexane mixtures, 2-4 D compounds, etc. (Directors: Dr. Weissflog, Dr. Schneider).
- Development of dusting and spraying agents (insecticides).
   (Director: Türcke).
- 2. The Organic and Plastics Laboratory (Director: Dr. Grassl) will work on the following projects:
  - a. Development of vinyl products containing fluorine. (Directors: Dr. Eckelmann, Dipl. Ing. Schumann).
  - b. Development of softeners for PCU. (Directors: Dr. Eckelmann, Dr. Leo).
  - c. Development of stabilizers for PCU. (Director: Dr. Eckelmann).
  - d. Separation of sebacic acid esters from soft coal paraffin wax. (Directors: Dr. Eckelmann, Dr. Leo).
  - e. Improvement in the production method and quality of hexachlorocyclohexane (C6H6Cl6). (Directors: Dr. Kadach, Dr. Bandtel, Dr. Ruppert, Dr. Otto).
  - f. Phosphoric acid ester and phosphoric acid esters containing sulphur. (Director: Dr. Wallbaum).
  - g. Production of methylene chloride. (Directors: Dr. Bauer, Chem. Thelert).
  - h. Improvement of the quality of tricresol phosphate. (Director: Dr. von dem Bruck).
  - i. Production of terephthalic acid methyl ester as a preliminary product for "Tepylen". (Directors: Dr. Grassl, Dr. Eckelmann).
  - j. High-frequency welding development for use in the field of plastics. (Director: Dipl. Ing. Vieten).
- 3. The Inorganic Laboratory (Laboratory of the Inorganic Department, South Plant) (Director: Dr. Wehner) will work on the following projects:
  - a. Development of titanium enamel. (Director: Dr. Wehner).
  - b. "Aerosil" (SiO3). (Director: Dr. Wehner).

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- c. Barium-potassium-chromate pigment. (Director: Dr. Wehner).
- d. Improvement of magnetite electrodes. (Director: Dr. Wehner).
- Development of a powdery foam fire extinguisher. (Director: Dr. Wehner).
- f. Development of a process for the testing and evaluation of carbon and graphite electrodes. (Director: Dr. Wehner).
- g. Electrolysis of scdium (NaCl sodium chloride electrolysis). (Director: Dipl. Ing. Domboa).
- 4. The Inorganic Department, South Plant, will work on the following projects:
  - a. Development of a 3,000-kw graphitization furnace. (Directors: Dr. Winkler, Dr. A. Bauer).
  - b. Improvement of the quality of titanium dioxide (TiO<sub>2</sub>). (Directors: Dr. Bopp, Kirst).
  - c. Improvement of the quality and extension of the uses of "Igurit" (graphite). (Director: Dr. Bopp).
  - d. Scouring of gases (removal of chlorine). (Director: Dr. Bopp).
  - e. Further development of "Kombinatkitt" (trade name for a fluorine silicate product). (Directors: Dr. Weger, Mitlacher).
  - f. Further development of a chlorate bath fitted with graphite anodes. (Director: Dr. Schindler).
- 5. The Inorganic Department, North Plant, will work on the following:
  - Production of socium glutamate and glutamic acid. (Director: Dr. Hloch).
  - b. Separation of albuminous powder from scrap, etc. (Replacement of casein for hydrochloric acid (HCl) disintegration (sic). Bino soup cubes). (Director: Dr. Hloch).
  - c. Further development of washing powders having a water-glass basis. (Washing agents containing phosphates and chlorates). (Director: Dr. Klingerer).
  - d. Development of new grades of corundum (Al<sub>2</sub>0<sub>3</sub>). (Directors: Dr. Espig, Hünger).
- 6. The Nitrogen Department will work on the following:
  - a. Improvement of the aluminum oxide cobalto-cobaltic oxide (Al203 Co301) catalytic process in the combustion of amnonia. (Directors: Dr. Bielenberg, Dr. Forst, in collaboration with Dr. Riemacker of Rostock).

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- Purification of laughing gas made from ammonium nitrate. (Director: Dr. Daniel).
- 7. The Light Metals Department (Metals Laboratory Director: Dr. Schichtel) will work on the following:
  - Replacement of lithium salts in light metal welding. (Director: Dr. Schichtel).
  - b. Aluminum chloride electrolysis. (Director: Dr. Geidel).
- 8. The Russian Ministry for Industry has commissioned the following projects:
  - a. Development of a casing material for cables which would be suitable for use at temperatures from 480° to -40° C. This has not yet definitely been accepted by the Plastics Laboratory because the Russian specifications are too high. (Directors: Dr. Grassl, Dr. Eckelmann).
  - b. Development of a heat-resistant magnesium alloy having a tensile strength of 8 kg./mm.<sup>2</sup> at 200° C. (Director: Dr. Schichtel).
  - c. Foam fire extinguisher. (Director: Dr. Wehner).
- 9. The Engineering Department (Directors: Dr. Schiller (?), Dr. Gruhl, Dr. Reinecke) will work on the following:
  - a. Development of an improved dust extractor for the power station.
  - b. Improvement of the gumming process.
  - c. Improvement of the ring scales for measuring quantities of gases.
- 10. It is planned to spend 2,950,000 DM on research in 1951. This is about one percent of the planned production of about 275,000,000 DM for the year.
- 11. The number of persons employed on research is 267. This figure includes 57 chemists and engineers, 15 of whom are employed full-time on research. The remainder are employed part-time in the various plants.
- 12. The organization of the Research and Development Section is as follows:

Director: Dr. Oskar Meyer. (Achded Kongr)
Deputy Director: Dr. E. Bauer. (Now Printer of Perconf)

They are responsible for all research in laboratories and production departments and for all semi-technical plants, but not for the analytical laboratories which test raw products, intermediate products and finished products.

a. Central Laboratory.

Director Deputy Director Electrolysis Laboratory Physico-chemical Laboratory Dr. E. Bauer Dr. Schulze Dr. Hölemann

Dr. Gebhardt, Dr. Seliger (from 1 January 1951)

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Biological Laboratory Heavy Metals Laboratory Inorganic Laboratory I Inorganic Laboratory II Chlorine-organic Laboratory Weedkiller and Insecticides

Dr. Weissflog, Dr. Schneider Dipl. Ing. Hänsel

Dr. Schulze Henneberger Dr. Fuldner

Laboratory Large Technical Plants

Türcke Dr. Schulze

Chief Analytical Laboratory. b.

Head of the Research Section

Dr. Wehner, assisted by Dr. Brauning, Chem. Wittenberg and Chem. Bunge.

Plastics Laboratory and Organic Laboratory. C.

Director

Dr. Grassl, assisted by Dr. Leo, Dr. Eckelmann and Dipl.

Ing. Schumann.

llicro-Laboratory

Dr. Marx

Arlications-Technics Laboratory

Dr. Kaltenborn

The factory expects to receive an electron microscope in the middle of 1951 and the control of the Micro-Laboratory will then be transferred, with Dr. Marx, to the Central Laboratory.

Organic Laboratory

Dr. Ruppert, Dr. Kadach, Dr. Bandtel and Chem. Thulert. (These men are also in charge of plants.)

Laboratory of the Inorganic Department, North Plant.

Inorganic

Dr. Heymann

Organic (under the supervision of Dr. Grassl)

Dr. Otto

Light Metals Laboratory. 0.0

Dr. Schichtel and Ir. Geidel.

 $\mathbf{f}_{\,o}$ Nitrogen Laboratory.

Dr. Beyer, Dr. Forst and Dr. Daniel.

Research Section c? the Materials-Testing Office of the Engineering g. Department.

Dr. Holub and Ing. Helbing.

ho Semi-Technical Fisearch Plants.

> Alumina plant (technical Department of Central Laboratory): Dr. Bauer Dr. Schulze.

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- Sodium electrolysis plant (Technical Department of Central Laboratory); one cell of 6,000 amperes: Dr. Chem. Domboa, Dr. Wehner.
- Chromic acid plant (Analytical Laboratory); chromic acid (CrO3) from potassium bichromate (K2Cr2O7): Dr. Wehner.
- Methylene chloride plant (benzoic acid plant of the Organic Department); Methyl alcohol - methylcchloride - methylene chloride (CH3CH - CH3Cl - CH2Cl2): Dr. Bauer, Thelert.
- Mixed fertilizers research plant (Nitrogen Department); one ton per day of phosphorus-nitrogen fertilizer from apatite + HNO3 (nitric acid) + ammonium sulphate: Dr. Bielenberg, Dr. Schulze.
- Chlorate plant (North Plant); one ton per day of chlorate by the Liebig process from sodium sulphate, calcium oxide and chlorine (Na<sub>2</sub>SO<sub>1</sub> & CaO + Cl<sub>2</sub>): Dr. Ehlert.
- Barium carbonate plant (North Plant); from 1 to 1.3 tons per day of barium carbonate (BaCO3) from barium sulphate plus sodium carbonate (Ba<sub>2</sub>SO<sub>1</sub> \* Na<sub>2</sub>CO<sub>3</sub>): Dr. Heymann.
- Hexachlorocyclohexane (666) plant (Organic Department); 100 kg. per day of gamma-isomers from the end of January 1951: Dr. Kadach, Dr. Ruppert and Dr. Bandtel.
- Columbium-tantalum carbide research plant (Central Laboratory); two tons per month of carbide: Dr. Schulze, Tunze.
- Smelting research (Central Laboratory); permanent magnets, etc.: Dipl. Ing. Hänsel.
- 2-4 D research plant (North Plant); one ton per month of dichlorophenoxyacetic acid and salts : Dr. Ehlers, Dipl. Ing. Walter.
- Benztriazol research plant (Plastics Laboratory); 500 kg. per month from phenylenediamine by "Diazolierung": Dr. Eckelmann.
- Chlorate research cells (Inorganic Department, South Plant); using graphite anodes; 20,000-ampere NaClO3 baths: Dr. Schindler.
- Oil and bearings test-bench in the Materials Testing Office: Dr. Holub.

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